# CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2008 Certified Company

JAS-ANZ

ISO 9001:2000 CERTIFIED

Job No: CQCE/BBMP/KRIDL/W.No.16/2017-18 Date: 09.03.2018

## TEST REPORT

| | | |
|---|---|---|
| CLIENT | : | **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore |
| AGENCY | : | **Technical Manager,** KRIDL, Bangalore. |
| NAME OF THE WORK | : | Providing Drinking water facilities in Bahubalinagara and surrounding areas in Ward No.16 Jalahalli, BBMP, Bangalore. |
| SAMPLE ID | : | Cement |
| SAMPLES SUPPLIED BY | : | AGENCY |

The results of the tests conducted on the cement sample are as follows:

| SLNo | Descriptions | Test Method as per IS | Test Result | Requirements as per IS: 12269-1987 |
|---|---|---|---|---|
| 1 | a) Initial Setting Time | IS:4031 (Part 5) | 125 Minutes | Not Less than 30 Minutes |
| | b) Final Setting Time | IS:4031 (Part 5) | 360 Minutes | Not More than 600 Minutes |
| 2 | Soundness | IS:4031 (Part 3) by the Le-Chatelier method | 1 mm | Not more than 10 mm |
| 3 | Standard Consistency | IS:4031 (Part 4) | 28.0 % | |

Note:

⇒ The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 15days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Office & Laboratory : # 131, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore - 560 056.
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Job No.: CQCE/BBMP/KRIDL/W.No.16/2017-18 Date : 09.03.2018

## TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Providing Drinking water facilities in Bahubalinagara and surrounding areas in Ward No.16 Jalahalli, BBMP, Bangalore.

Date of Testing : 09.03.2018

Material : Sand Total Wt. of Aggregates in gms 1000

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Spec.Limits For Zone-II |
|---|---|---|---|---|---|
| 10 | 0 | 0 | 0 | 100 | 100 |
| 4.75 | 62 | 6.20 | 6.20 | 93.8 | 90-100 |
| 2.36 | 128 | 12.80 | 19.00 | 81.0 | 75-100 |
| 1.18 | 193 | 19.30 | 38.30 | 61.7 | 55-90 |
| 600 Micron | 221 | 22.10 | 60.40 | 39.6 | 35-59 |
| 300 Micron | 205 | 20.50 | 80.90 | 19.1 | 8-30 |
| 150 Micron | 117 | 11.70 | 92.60 | 7.4 | 0-10 |

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರು
ಯಶವಂತಪುರ ಉಪ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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Job No.: CQCE/BBMP/KRIDL/W.No.16/2017-18

Date: 10.03.2018

## TEST REPORT

| | | |
|---|---|---|
| CLIENT | : | **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore |
| AGENCY | : | **Technical Manager,** KRIDL, Bangalore. |
| NAME OF THE WORK | : | Providing Drinking water facilities in Bahubalinagara and surrounding areas in Ward No.16 Jalahalli, BBMP, Bangalore. |
| SAMPLE ID | : | Bricks Test – Class 7.5 (Machine moulded) |
| SAMPLES SUPPLIED BY | : | AGENCY |

The results of the tests conducted on the samples are as follows:

| Sl. No | Description | Test method as per IS Codes | Result | Requirement as per IS 1077-1992 (Rev-5) |
|---|---|---|---|---|
| 1 | Compressive Strength Of Bricks | IS 3495-1992 (Part-1) | 8.17 $N/mm^2$ | Class designation 7.5 |
| 2 | Water Absorption of Bricks | IS 3495-1992 (Part – 2) | 14.26 % | Not more than 20 % |
| 3 | Efflorescence of Bricks | IS 3495-1992 (Part – 3) | Moderate | Up to 12.5 Class |
| 4 | Dimensional Analysis of Bricks (minimum Sampling is 20 Nos.) | IS 1077-1992 (Rev – 5) | | |
| (a) | Measurement of Length in mm | | 3820 mm | (3800 ± 80 mm) |
| (b) | Measurement of Width in mm | | 1835 mm | (1800 ± 40 mm) |
| (c) | Measurement of Height in mm | | 1430 mm | (1400 ± 40 mm) |

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